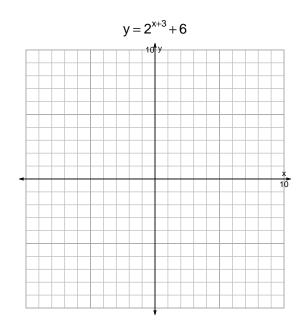
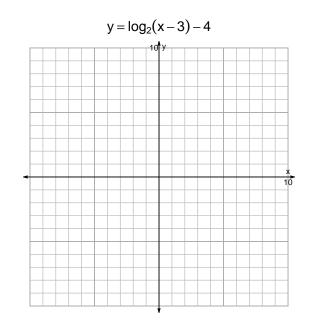
s18quiz: EXP LOG (QUIZ v291)

1. Graph $y=2^{x+3}+6$ and $y=\log_2(x-3)-4$ on the grids below. Also, draw any asymptotes with dotted lines.

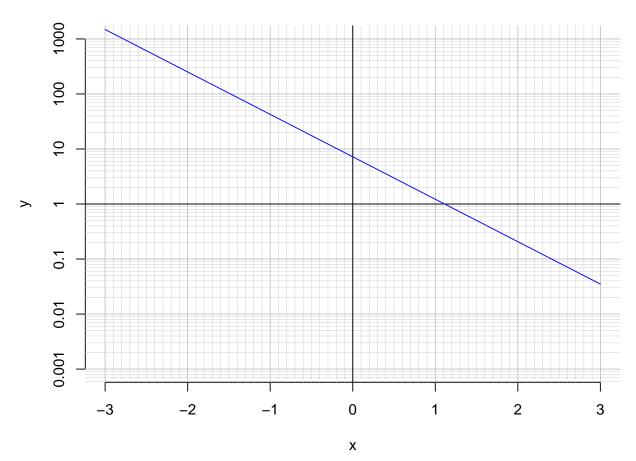




2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-19 = \left(\frac{-5}{3}\right) \cdot 2^{-7t/4}$$

3. An exponential function $f(x) = 7.21 \cdot e^{-1.78x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate f(-2.1).
- b. Express $f^{-1}(x)$, the inverse of f.
- c. Using the plot above, evaluate $f^{-1}(0.05)$.